



20" x 20" (500 mm x 500 mm) Hydraulic Cutter Suction Dredge

The Series 1870 Dragon® cutterhead dredge is a medium to large size dredge that is portable and can be transported by truck to inland locations. Features include:

- Capable of dredging up to 50' (15 m) depth in standard form (Deeper available by option.).
- Unique shallow dredging feature enables highly effective excavation starting at 5 ft (1.5m) digging depth.
- Dredge pump and auxiliaries are powered thru two independent engines for high working productivity over full operating range
- Built with Ellicott's time proven rugged designs and traditional electro-hydraulic control system, the 1870 is a preferred dredge for remote and tropical conditions.
- With industry leading total overall length, the 1870 offers greater swing-width for more production per dredging hour.
- Typical uses of the 1870 include river, port and harbor dredging as well as land reclamation.
- Owners of this dredge are typically dredging contractors, private shipping terminals, and government agencies using operators with medium to advanced skill levels
- Full range of standard options available including GPS based positioning systems.

	1870 English	1870 Metric
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GENERAL	Suction Pipe x Discharge Pipe	20" x 20"	500 mm x 500 mm
	Dredging Depth, Maximum	50'	15 m
	Length, Overall (with Ladder Raised)	117'	35.5 m
	Length, Hull	82'	25 m
	Width, Hull (including Side Pontoons)	27'	8.2 m
	Depth, Hull	6'	1.8 m
	Number of Pontoons (Tanks)	5	
	Plate Thickness of Center Pontoon	5' / 16"	8 mm
	Dry Weight	410,000 lbs	186,000 kg
	Hull Draft (not Including Spuds)	4'	1.2 m
Fuel Capacity	7,900 gallons	29,900 liters	
Swing Width @ Minimum Dredging Depth	152'	46.3 m	
Swing Width @ Maximum Dredging Depth	122'	37.2 m	
ENGINES	Main Engine (Caterpillar)	3512	
	Power	1,280 HP	955 kW
	Cooling	Heat Exchanger	
	Auxiliary Engine (Caterpillar)	C-15	
	Power	475 HP	354 kW
TOTAL INSTALLED POWER	Rating	Tier 3	
	Cooling	Heat Exchanger	
	Not Including Standard Genset	1,755 HP	1,309 kW
CUTTER DRIVE	Power at Cutter Shaft	250 HP	186 kW
	Cutter Speed	18-27-36 RPM	
	Cutter Diameter	54"	1,372 mm
	Cutting Force	14,900 lbs	6,759 kg
SPUDS	Diameter	24"	610 mm
	Length	67'-4"	20.4 m
	Preliminary Specifications are Subject to Change Without Notice		